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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/717,284	11/19/2003	Robert C. Taft	08211/0200252-US0	08211/0200252-US0 7398	
38845	7590 06/23/2005		EXAM	EXAMINER	
DARBY & DARBY P.C.			NGUYEN, HIEP		
P.O. BOX 52 NEW YORK	.57 , NY 10150-5257		ART UNIT PAPER NUMBER 2816		
	,				
			DATE MAILED: 06/23/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/717,284	TAFT ET AL.			
		Examiner	Art Unit			
	,	Hiep Nguyen	2816			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY F THE MAILING DATE OF THIS ( - Extensions of time may be available under after SIX (6) MONTHS from the mailing dat - If the period for reply specified above, th - Failure to reply within the set or extended p	COMMUNICATION. the provisions of 37 CFR 1.13 e of this communication. s than thirty (30) days, a reply e maximum statutory period w eriod for reply will, by statute, hree months after the mailing		nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) Responsive to communication	ation(s) filed on 03 Ju	ne 2005.				
2a) This action is FINAL.						
· · · · · · · · · · · · · · · · · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4a) Of the above claim(s) 5)	4)  Claim(s) 22,23 and 25-37 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) 23 is/are allowed.  6)  Claim(s) 22 and 25-33 is/are rejected.  7)  Claim(s) 34-37 is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected	ed to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119			,			
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawin</li> </ol>		4)				
3) Information Disclosure Statement(s) (F Paper No(s)/Mail Date			Patent Application (PTO-152)			

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### **DETAILED ACTION**

The finality of the rejection has been withdrawn.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 22, 25, 26 and 28-32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Correction and/or clarification is required.

Regarding claim 22, the recitation "an on condition" on lines 7 and 10 is indefinite because it is not clear which component is in "an on condition". The same rationale is applied to the recitation "an on condition" in claims 23, 25, 26, 28,

Claims 29-32 are indefinite because of the technical deficiencies of claim 28.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 22, 26, 27 and 33 are rejected under 35 U.S.C. 102 (b) as being anticipated by Singer et al. (US Pat. 6,118,326).

Regarding claims 22, 26, 27 and 33, figure 7 of Singer shows a transmission gate comprising a switch circuit (M1), a boost circuit (30, S1, Cboot, S2) in response to a supply voltage (V++) (col. 12 lines 31-51), a current source circuit (S4), a constant voltage difference circuit (40). The voltage at node N3 is supplied to the gate of switch (M1) is equal to Vi + V++-V--. Note that V-- is equivalent to the ground level, thus the gate voltage is Vi + V++. The difference between that gate voltage and the input voltage Vin is V++, Thus the gate-source voltage is constant, independent of the input voltage Vin. Circuit (40) comprises transistors. The control input applied to the gate of switch is Vin +V--. Therefore, the control

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input tracks the input voltage. The on-resistance of the switch is always constant with temperature (col. 12, lines 45-47).

## Allowable Subject Matter

Claims 34-37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 25 and 28-32 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Claims 34-37 are objected to because the prior art (US Pat. 6,118,326) fail to teach or suggest a second switch circuit coupled to the input node and to the output node as called for in claims 34 and 35.

Claim 25 would be allowable because the prior art (US Pat. 6,118,326) fail to teach or suggest transmission gate comprising a charge pump and a current source comprising a current mirror.

Claims 28-32 would be allowable because the prior art (US Pat. 6,118,326) fail to teach or suggest transmission gate comprising a first transistor arranged in a diode configuration and coupled between the control input node and another node; and a second transistor including a gate that is coupled to the input node, a source that is coupled to the other node as called for in claim 28.

Claim 23 is allowed because the prior art (US Pat. 6,118,326) fail to teach or suggest transmission gate comprising a constant voltage difference circuit including a plurality of transistors, and wherein constant voltage difference is substantially equal to the sum of the gate-to-source voltages of each of the plurality of transistors.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hiep Nguyen whose telephone number is (571) 272-1752. The examiner can normally be reached on Monday to Friday from 7:30am to 4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hiep Nguyen

06-17-05 Afa

TUANT. LAM
PRIMARY EXAMINER

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